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Substitute for form 1449/PTO

## SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet	1	of	1	

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Complete	Complete if Known					
Application Number	10/551,209					
Filing Date	September 28, 2005					
First Named Inventor	Denise Marie BAKER					
Art Unit	1644					
Examiner Name	M. DiBrino					
Attorney Docket Number	2473.0260001/EKS/PAC					

	U.S. PATENT DOCUMENTS							
Examiner Cite Initials No. 1		Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages			
Initials	Number-Kind Code <sup>2 (If Known)</sup>	MM-DD-YYYY	Applicant of Cited Document	or Relevant Figures Appear				
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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document  Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
	FP32	EP 0 226 513 A1	06/24/1987	Institut Pasteur		Abs

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Substitute for form 1449/PTO				Con	mplete if Known
CECOND CUDDI EMENTAL				Application Number	10/551,209
SECOND SUPPLEMENTAL				Filing Date	September 28, 2005
	INFORMATION DISCLOSURE			First Named Inventor	Denise Marie BAKER
(Use as many sheets as necessary)		Art Unit	1644		
		Examiner Name	M. DiBrino		
Sheet	1	of	15	Attorney Docket Number	2473.0260001/EKS/PAC

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T²
	NPL159	Alexander, J., et al., "Development of High Potency Universal DR-Restricted Helper Epitopes by Modification of High Affinity DR-Blocking Peptides," <i>Immunity 1</i> :751-761, Cell Press, Massachusetts (1994)	
	NPL160	Alonso, M.J., et al., "Biodegradable Microspheres as Controlled-release Tetanus Toxoid Delivery System," Vaccine 12:299-306, Elsevier Ltd., London (1994)	
	NPL161	Alter, H.J., "Chronic Consequences of Non-A, Non-B Hepatitis," in <i>Current Perspectives in Hepatology</i> , eds., Seeff, L.B., and Lewis, J.H., pp. 83-97, Plenum Publishing Corporation, New York (1989)	
	NPL162	Alter, M.J., et al., "The Natural History of Community-Acquired Hepatitis C in the United States," The New England Journal of Medicine 327:1899-1905, Massachusetts Medical Society, Boston (1992)	
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	NPL168	Barber, L.D., et al., "Overlap in the Repertoires of Peptides Bound In Vivo by a Group of Related Class I HLA-B Allotypes," Current Biology 5:179-190, Current Biology Ltd., London (1995)	

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CECOND CUDDI EMENTAL				Application Number	10/551,209
	SECOND SUPPLEMENTAL		Filing Date	September 28, 2005	
INFORMATION DISCLOSURE				First Named Inventor	Denise Marie BAKER
STATEMENT BY APPLICANT (Use as many sheets as necessary)		Art Unit	1644		
		Examiner Name	M. DiBrino		
Sheet	2	of	15	Attorney Docket Number	2473.0260001/EKS/PAC

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T <sup>2</sup>
ï	NPL169	Borrow, P., et al., "Antiviral Pressure Exerted by HIV-1-Specific Cytotoxic T Lymphocytes (CTLs) During Primary Infection Demonstrated by Rapid Selection of CTL Escape Virus," Nature Medicine 3:205-211, Nature Publishing Co., New York (1997)	
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,	NPL171	Busch, R., et al., "Degenerate Binding of Immunogenic Peptides to HLA-DR Proteins on B Cell Surfaces," International Immunology 2:443-451, Oxford University Press, Oxford, UK (1990)	Č
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• • •	NPL173	Ceppellini, R., et al., "Binding of Labelled Influenza Matrix Peptide to HLA DR in Living B Lymphoid Cells," Nature 339:392-394, Macmillan Magazines Ltd., London (1989)	
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	NPL177	Chisari, F.V., and Ferrari, C., "Hepatitis B Virus Immunopathogenesis," <i>Annual Review of Immunology 13</i> :29-60, Annual Reviews Inc., Palo Alto, California, USA (1995)	
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SECOND SUPPLEMENTAL INFORMATION DISCLOSURE				Filing Date	September 28, 2005		
				First Named Inventor	Denise Marie BAKER		
STATEMENT BY APPLICANT (Use as many sheets as necessary)		Art Unit	1644				
		Examiner Name	M. DiBrino				
Sheet	3	of	15	Attorney Docket Number	2473.0260001/EKS/PAC		

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	NPL179	Christnick, E.R., et al., "Peptide Binding to Class I MHC on Living Cells and Quantitation of Complexes Required for CTL Lysis," Nature 352:67-70, Macmillan Magazines Ltd., London (1991)	
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	NPL181	Cornette, J.L, et al., "Hydrophobicity Scales and Computational Techniques for Detecting Amphipathic Structures in Proteins," Journal of Molecular Biology 195:659-685, Academic Press Inc., London (1987)	
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	NPL185	Dienstag, J.L., "Non-A, Non-B Hepatitis. I. Recognition, Epidemiology, and Clinical Features," <i>Gastroenterology</i> 85:439-462, American Gastroenterological Association, New York, USA (1983)	
	NPL186	Doolan, D.L., et al., "Cytotoxic T Lymphocyte (CTL) Low-Responsiveness to the Plasmodium Falciparum Circumsporozoite Protein in Naturally-Exposed Endemic Populations: Analysis of Human CTL Response to Most Known Variants," International Immunology 5:37-46, Oxford University Press, London (1993)	
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SECON	D CLIDD			Application Number	10/551,209	
SECOND SUPPLEMENTAL				Filing Date	September 28, 2005	
	INFORMATION DISCLOSURE STATEMENT BY APPLICANT			First Named Inventor	Denise Marie BAKER	
				Art Unit	1644	
	(Use as many sheets as necessary)		Examiner Name	M. DiBrino		
Sheet	4	of	15	Attorney Docket Number	2473.0260001/EKS/PAC	

		NON PATENT LITERATURE DOCUMENTS	
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	NPL189	Devereux, J., et al., "A Comprehensive Set of Sequence Analysis Programs for the VAX," Nucleic Acids Research 12:387-395, IRL Press Limited, Oxford, England (1984)	
	NPL190	Debs, R.J., et al., "Regulation of Gene Expression In Vivo by Liposome-Mediated Delivery of a Purified Transcription Factor," The Journal of Biological Chemistry 265:10189-10192, The American Society for Biochemistry and Molecular Biology, Inc., Baltimore, USA (1990)	
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	NPL195	Fauchere, J. and Pliska, V., "Hydrophobic Parameters II of Amino-Acid Side Chains from the Partitioning of N-Acetyl-Amino-Acid Amides," <i>European Journal of Medicinal Chemistry 18</i> :369-375, S.E.C.T., Paris (1983)	
	NPL196	Felgner, P.L., et al., "Lipofection: A Highly Efficient, Lipid-Mediated DNA-Transfection Procedure," Proc. Natl. Acad. Sci. USA 84:7413-7417, National Academy of Sciences (1987)	
	NPL197	Robinson, W.S., "Hepadnaviridae and Their Replication," in <i>Virolog, Volume 2</i> , Chapter 26, eds., Fields, B.N., <i>et al.</i> , pp. 2137-2169, Raven Press Ltd., New York, USA (1990)	
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Sheet	5	of 15	5	Attorney Docket Number	2473.0260001/EKS/PAC	

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	NPL199	Fraley, R., et al., "Introduction of Liposome-Encapsulated SV40 DNA into Cells," The Journal of Biological Chemistry 255:10431-10435, The American Society of Biological Chemists, Inc., Baltimore, USA (1980)	
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	NPL207	Gulukota, K., et al., "Two Complementary Methods for Predicting Peptides Binding Major Histocompatibility Complex Molecules," Journal of Molecular Biology 267:1258-1267, Academic Press, London (1997)	
	NPL208	Haas, G., et al., "Dynamics of Viral Variants in HIV-1 Nef and Specific Cytotoxic T Lymphocytes In Vivo," The Journal of Immunology 157:4212-4221, The American Association of Immunologists, Maryland, USA (1996)	

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	NPL217	Hoofnagle, J.H., "Chronic Hepatitis B," The New England Journal of Medicine 323:337-339, Massachusetts Medical Society, Boston, USA (1990)			
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SECON	D CHIDD	. <b>-</b>		Application Number	10/551,209
SECOND SUPPLEMENTAL				Filing Date	September 28, 2005
	INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)			First Named Inventor	Denise Marie BAKER
				Art Unit	1644
				Examiner Name	M. DiBrino
Sheet	7	of	15	Attorney Docket Number	2473.0260001/EKS/PAC

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T <sup>2</sup>
	NPL219	Jamieson, B.D., et al., "Effective Clearance of a Persistent Viral Infection Requires Cooperation Between Virus-Specific Lyt2+ T Cells and Nonspecific Bone Marrow-Derived Cells," Journal of Virology 61:3930-3937, American Society for Microbiology, Washington DC, USA (1987)	
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	NPL222	Khilko, S.N., et al., "Direct Detection of Major Histocompatibility Complex Class I Binding to Antigenic Peptides Using Surface Plasmon Resonance," The Journal of Biological Chemistry 268:15425-15434, The American Society for Biochemistry and Molecular Biology, Baltimore, USA (1993)	
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OFOON			TAITAI	Application Number	10/551,209
SECON				Filing Date	September 28, 2005
			LOSURE	First Named Inventor	Denise Marie BAKER
			PLICANT	Art Unit	1644
(Use as many sheets as necessary)				Examiner Name	M. DiBrino
Sheet	8	of	15	Attorney Docket Number	2473.0260001/EKS/PAC

		NON PATENT LITERATURE DOCUMENTS	,
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	NPL229	Kuo, G., et al., "An Assay for Circulating Antibodies to a Major Etiologic Virus of Human Non-A, Non-B Hepatitis," Science 244:362-364, American Association for the Advancement of Science, Washington DC, USA (1989)	
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	NPL236	Lukashov, V.V. and Goudsmit, J., "HIV Heterogeneity and Disease Progression in AIDS: A Model of Continuous Virus Adaption," <i>Aids 12</i> :S43-S52, Lippincott-Raven Publishers, London (1998)	
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CECOND CUDDI EMENTAL	Application Number	10/551,209		
SECOND SUPPLEMENTAL	Filing Date	September 28, 2005		
INFORMATION DISCLOSUR	i First Named inventor	Denise Marie BAKER		
STATEMENT BY APPLICAN	Art Unit	1644		
(Use as many sheets as necessary)	Examiner Name	M. DiBrino		
Sheet 9 of 15	Attorney Docket Number	2473.0260001/EKS/PAC		

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	NPL239	Mannino, R.I. and Gould-Fogerite, S., "Liposome Mediated Gene Transfer,"  BioTechniques 6:682-690, Eaton Publishing Company, Massachusetts, USA (1988)	
	NPL240	Marshall, K.W., et al., "Role of the Polymorphic Residues in HLA-DR Molecules in Allele-Specific Binding of Peptide Ligands," <i>The Journal of Immunology 152</i> :4946-4957, The American Association of Immunologists, Maryland, USA (1994)	
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	NPL244	Meister, G.E., et al., "Two Novel T cell Epitope Prediction Algorithms Based on MHC-binding Motifs; Comparison of Predicted and Published Epitopes from Mycobacterium Tuberculosis and HIV Protein Sequences," Vaccine 13:581-591, Elsevier Science Ltd., Oxford, UK (1995)	
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				Application Number	10/551,209	
				Filing Date	September 28, 2005	
INFORMATION DISCLOSURE				First Named Inventor	Denise Marie BAKER	
	STATEMENT BY APPLICANT			Art Unit	1644	
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Sheet 10 of 15			15	Attorney Docket Number	2473.0260001/EKS/PAC	

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	NPL253	Pantaleo, G., et al., "Major Expansion of CD8 <sup>+</sup> T cells with a Predominant Vβ usage During the Primary Immune Response to HIV," Nature 370:463-467, Macmillan Magazines Ltd., London (1994)	
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SECOND SUPPLEMENTAL	Application Number	10/551,209	
	Filing Date	September 28, 2005	
INFORMATION DISCLOSURE	First Named Inventor	Denise Marie BAKER	
STATEMENT BY APPLICANT	Art Unit	1644	
(Use as many sheets as necessary)	Examiner Name	M. DiBrino	
Sheet 11 of 15	Attorney Docket Number	2473.0260001/EKS/PAC	

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Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T <sup>2</sup>
	NPL259	Price, D.A., et al., "Positive Selection of HIV-1 Cytotoxic T Lymphocyte Escape Variants During Primary Infection," Proc. Natl. Acad. Sci. USA 94:1890-1895, National Academy of Sciences (1997)	
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	NPL264	Rénia, L., et al., "In Vitro Activity of CD4 <sup>+</sup> and CD8 <sup>+</sup> T Lymphocytes from Mice Immunized with a Synthetic Malaria Peptide," Immunology 88:7963-7967, Proceedings of the National Academy of Science of the United States of America, Washington DC, USA (1991)	
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SECOND SUPPLEMENTAL INFORMATION DISCLOSURE				Application Number	10/551,209		
				Filing Date	September 28, 2005		
				First Named Inventor	Denise Marie BAKER		
	STATEMENT BY APPLICANT			Art Unit	1644		
(Use as many sheets as necessary)			s necessary)	Examiner Name	M. DiBrino		
Sheet	12	of	15	Attorney Docket Number	2473.0260001/EKS/PAC		

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	NPL268	Rowen, D. and Lacey, C., "Toward a Human Papillomavirus Vaccine," <i>Dermatologic Clinics</i> 16:835-838, W.B. Saunders Company, Philadelphia, Pennsylvania, USA (1998)	
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-	NPL275	Sidney, J., et al., "Definition of an HLA-A3-Like Supermotif Demonstrates the Overlapping Peptide-Binding Repertoires of Common HLA Molecules," Human Immunology 45:79-93, Elsevier Science Inc., New York, USA (1996)	
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Substitute for	form 1449/PT	·o		Co.	Complete if Known		
SECOND SUPPLEMENTAL				Application Number	10/551,209		
				Filing Date	September 28, 2005		
	INFORMATION DISCLOSURE STATEMENT BY APPLICANT			First Named Inventor	Denise Marie BAKER		
STATE				Art Unit	1644		
(Use as many sheets as necessary)			s necessary)	Examiner Name	M. DiBrino		
Sheet	13	of	15	Attorney Docket Number	2473.0260001/EKS/PAC		

Sneet	13	of 15 Attorney Docket Number 24/3.0260001/ERS/PAC	_		
		NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of	T <sup>2</sup>		
	NPL278	Stover, C.K., et al., "New Use of BCG for Recombinant Vaccines," Nature 351:456-460, Macmillan Magazines Ltd., London (1991)			
	NPL279	Sturniolo, T., et al., "Generation of Tissue-Specific and Promiscuous HLA Ligand DatabaseS Using DNA Microarrays and Virtual HLA Class II Matrices," Nature Biotechnology 17:555-561, Nature America Inc., New York, USA (1999)			
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	NPL281	Pfister, K., et al., "Syncatalytic conformational changes in aspartate aminotransferase determined by hydrogen-deuterium exchange," Proc. Natl. Acad. Sci. USA 75:145-148, National Academy of Sciences (1978)			
	NPL282	Takahashi, H., et al., "Induction of CD8 <sup>+</sup> Cytotoxic T Cells by Immunization with Purified HIV-1 Envelope Protein in ISCOMs," Nature 344:873-875, Macmillan Magazines Ltd., London (1990)			
	NPL283	Tam, J.P., "Recent Advances in Multiple Antigen Peptides," Journal of Immunological Methods 196:17-32, Elsevier Science B.V., Amsterdam, Netherlands (1996)			
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Examiner	Date	
Signature	Considered	

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(Use as many sheets a	is necessary)	Examiner Name	M. DiBrino		
Sheet 14 of	15	Attorney Docket Number	2473.0260001/EKS/PAC		

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	NPL288	Tsubota, H., et al., "A Cytotoxic T Lymphocyte Inhibits Acquired Immunodeficiency Syndrome Virus Replication in Peripheral Blood Lymphocytes," Journal of Experimental Medicine 169:1421-1434, The Rockefeller University Press, New York, USA (1989)	
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•	NPL290	Vitiello, A., et al., "Development of a Lipopeptide-Based Therapeutic Vaccine to Treat Chronic HBV Infection," The Journal of Clinical Investigation 95:341-349, The Rockefeller University Press, New York, USA (1995)	
	NPL291	Verhoef, J.C., et al., "Des-enkephalin-γ-endorphin (DEγE): Biotransformation in Rat, Dog and Human Plasma," European Journal of Drug Metabolism and Pharmacokinetics 11:291-302, Medicine ET Hygiene, Geneva, Switzerland (1986)	
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	NPL295	Wilson, T., et al., "The Introduction of Poliovirus RNA into Cells via Lipid Vesicles (Liposomes)," Cell 17:77-84, The MIT Press, Cambridge, Massachusetts, USA (1979)	
	NPL296	Wolff, J.A., et al., "Direct Gene Transfer into Mouse Muscle In Vivo," Science 247:1465-1468, American Association for the Advancement of Science, Washington DC, USA (1990)	
	NPL297	Yap, K.L. and Ada, G.L., "Transfer of Specific Cytotoxic T Lymphocytes Protects Mice Inoculated with Influenza Virus," <i>Nature 273</i> :238-239, Macmillan Journals Ltd., London (1978)	

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SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets an ancessarry)  Sheet 15 of 15 Attorney Decket Number 10/551,209  First Named Inventor Deniss Marie BAKER Art Unit 1644  Examiner Mm. DiBirino  NON PATENT LITERATURE DOCUMENTS  Examiner Initials*  NPL298 Review of Biophysics and Bioengineering 13:145-165, Annual Reviews Inc., Palo Alto, California, USA (1984)  NPL298 Zamyatnin, A.A., "Amino Acid, Peptide, and Protein Volume in Solution," Annual Reviews Inc., Palo Alto, California, USA (1984)  NPL299 Zamyatnin, A.A., "Protein Volume in Solution," in Progress in Biophysics and Molecular Biology, eds., Butlet, J.A.V. and Noble, D., pp. 109-121, Pergamon Press, Oxford, UK (1972)  NPL300 Esp@cenet Database, English language abstract for EP 0 226 513 A1 (listed as document FP32 on accompanying form PTO/SB/08A)  Examiner Signature Date Considered Date Review Considered New Horse Food Date Review Conside	Substitute for form 1449/PTO				. Complete if Known			
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NPL299  Biology, eds., Butler, J.A.V. and Noble, D., pp. 109-121, Pergamon Press, Oxford, UK (1972)  NPL300  Esp@cenet Database, English language abstract for EP 0 226 513 A1 (listed as document FP32 on accompanying form PTO/SB/08A)  Interpretation of the property of th		NPL298	Review	of Biophysics and B				
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